

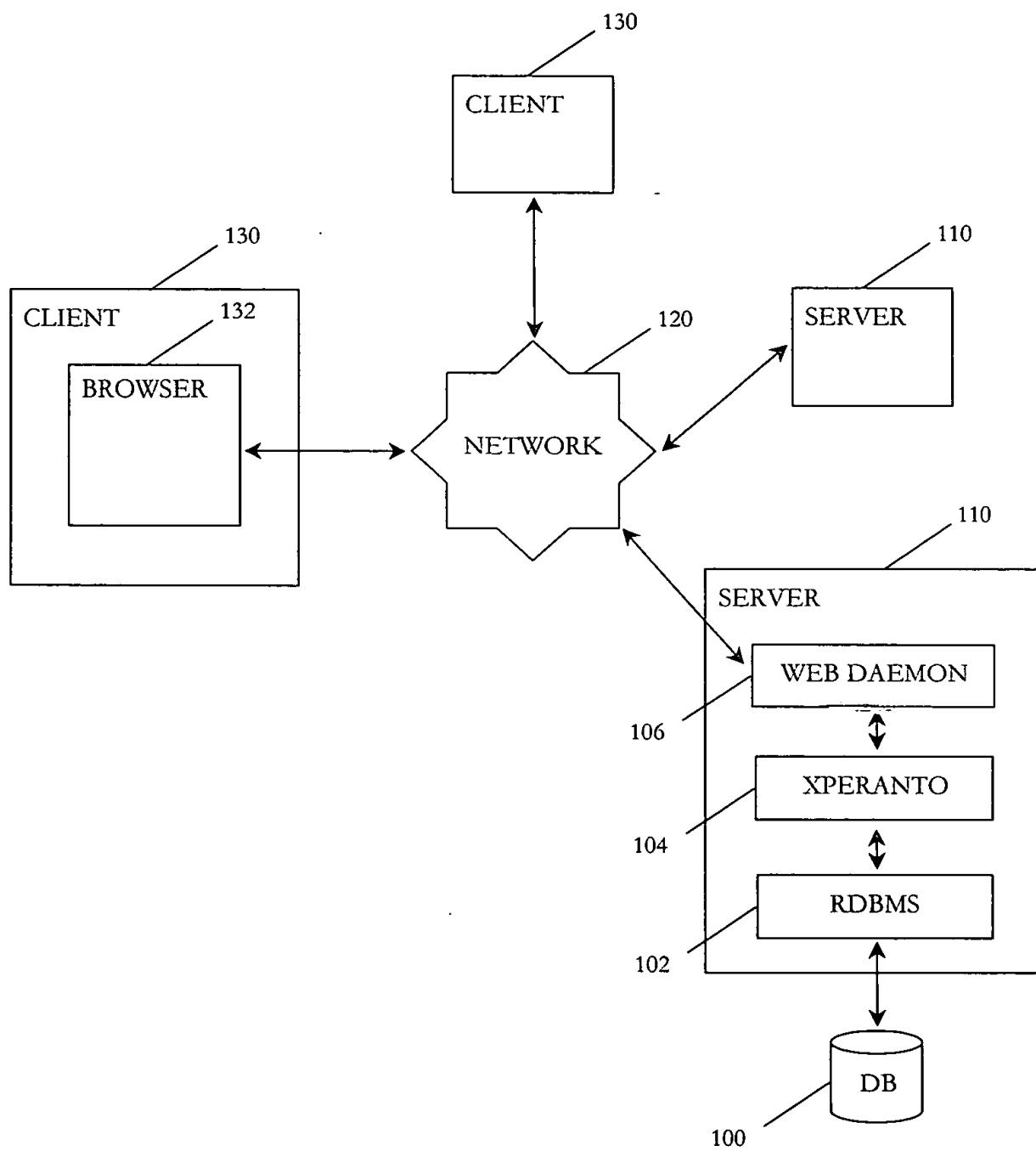
[illegible]

FIG. 1

007220-203T2560

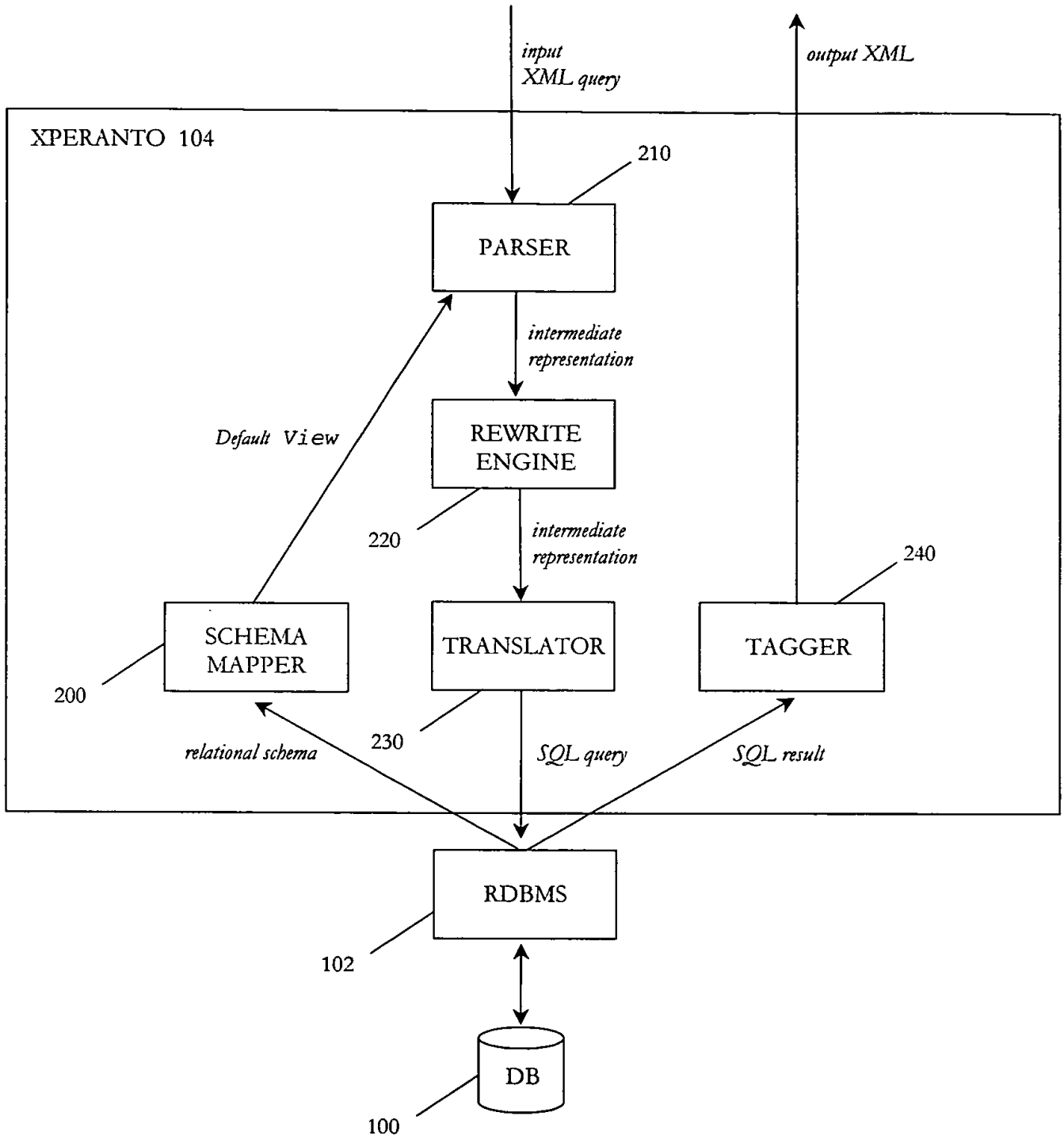


FIG. 2

Query Over the Default View

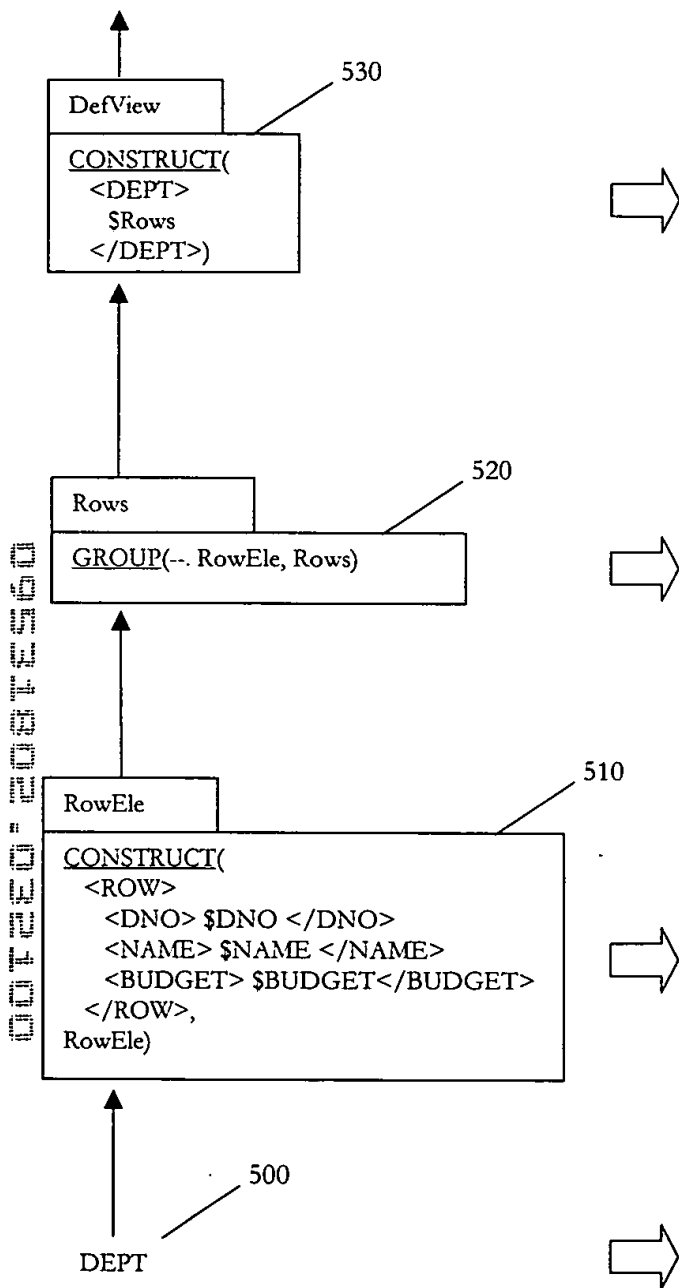
```
WHERE
  <DEPT>
    <ROW>
      <DNO> $DNO </DNO> <NAME> $DNAME </NAME>
      <SIZE> $DSIZE </SIZE>
    </ROW>
  </DEPT> IN DefaultView,
  $DSIZE > 75
CONSTRUCT
  <BIGDEPT>
    <NAME> $DNAME </NAME>
    <SIZE> $DSIZE </SIZE>
    {WHERE
      <EMP>
        <ROW> <DNO> $DNO </DNO> <NAME> $ENAME </NAME> </ROW>
      </EMP> IN DefaultView
    }
    CONSTRUCT
      <EMP> <NAME> $ENAME </NAME> </EMP>}
  </BIGDEPT>
```

XML Produced by the Query

```
<BIGDEPT>
  <NAME> Finance </NAME>
  <SIZE> 100 </SIZE>
  <EMP> <NAME> J. Skolem </NAME> </EMP>
  ...
</BIGDEPT>
<BIGDEPT>
  <NAME> Marketing </NAME>
  <SIZE> 200 </SIZE>
  <EMP> <NAME> L. Hubbard </NAME> </EMP>
  ...
</BIGDEPT>
...
```

FIG. 4

Intermediate Representation for the Default View of the DEPT Table



Output of Each Operation

```

<DEPT>
  <ROW>
    <DNO> 1 </DNO> <NAME> Finance </NAME>
    <SIZE> 100 </SIZE>
  </ROW>
  <ROW>
    <DNO> 2 </DNO> <NAME> Marketing </NAME>
    <SIZE> 200 </SIZE>
  </ROW>
  ...
</DEPT>

<ROW>
  <DNO> 1 </DNO> <NAME> Finance </NAME>
  <SIZE> 100 </SIZE>
</ROW>
<ROW>
  <DNO> 2 </DNO> <NAME> Marketing </NAME>
  <SIZE> 200 </SIZE>
</ROW>
...

<ROW>
  <DNO> 1 </DNO> <NAME> Finance </NAME>
  <SIZE> 100 </SIZE>
</ROW>
-----
<ROW>
  <DNO> 2 </DNO> <NAME> Marketing </NAME>
  <SIZE> 200 </SIZE>
</ROW>
-----
...

1 Finance 100
-----
2 Marketing 200
-----
...

```

FIG. 5

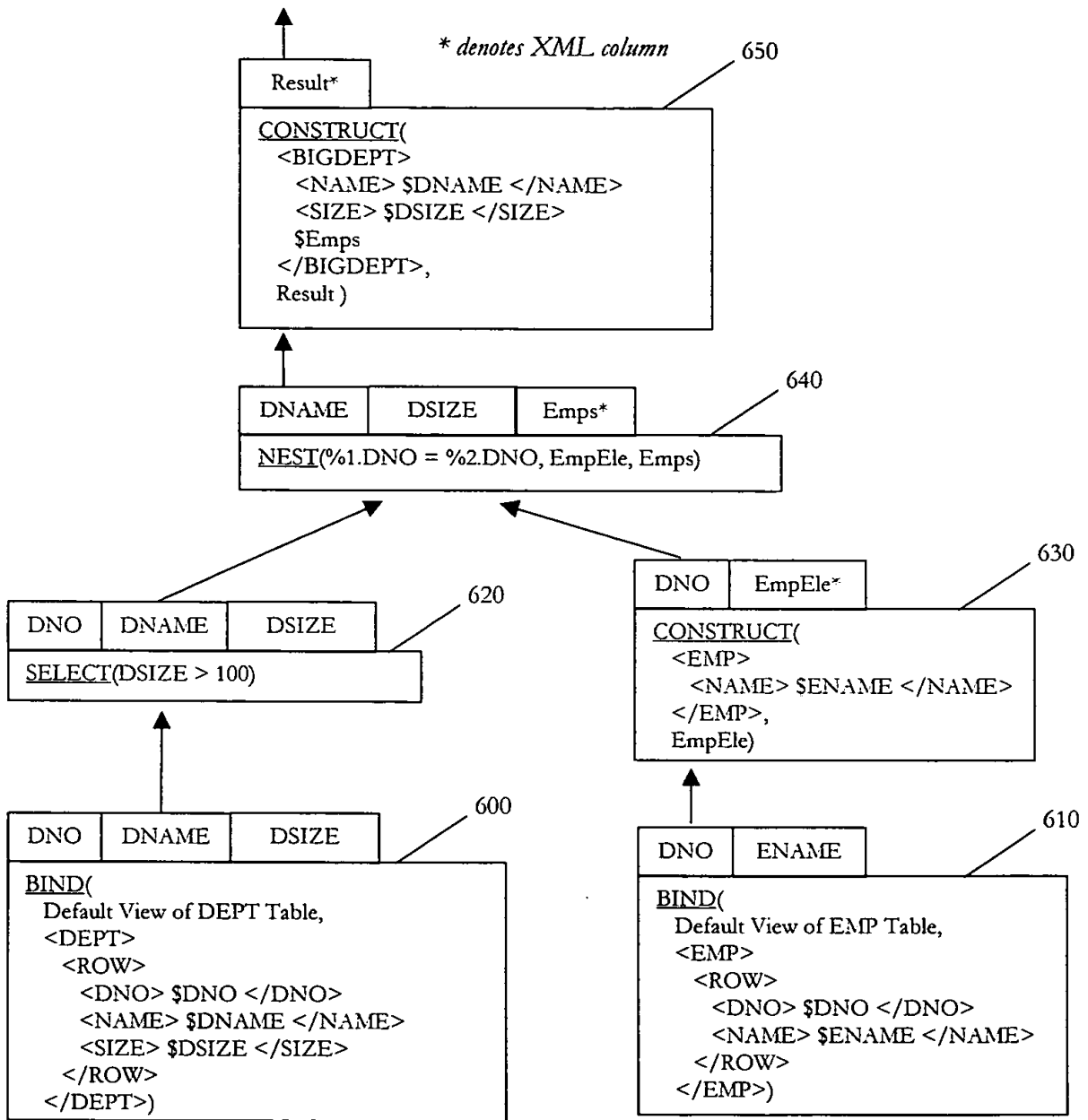


FIG. 6

FIG. 7

[illegible]

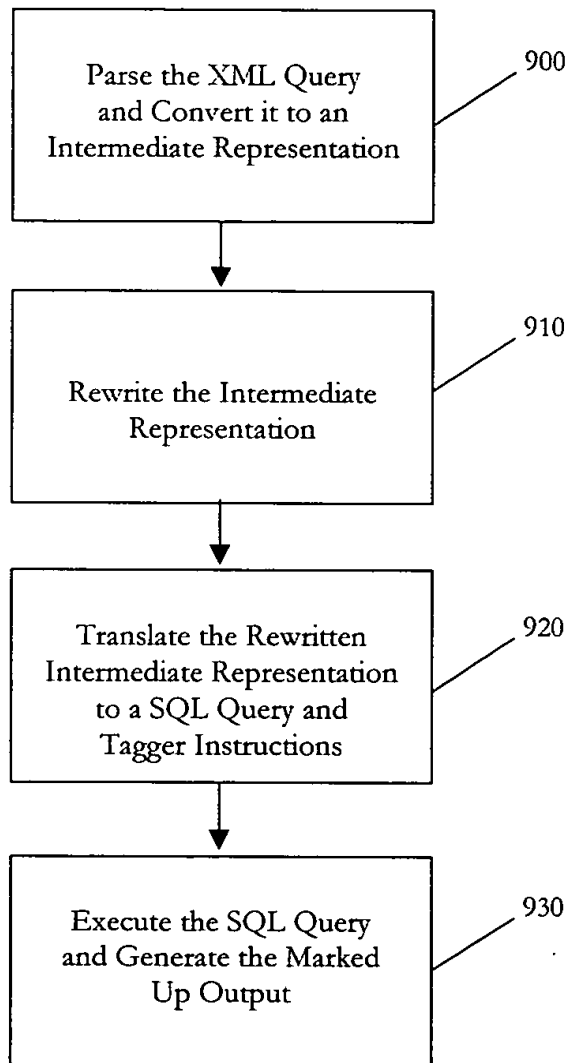


FIG. 9